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**Nobel Corporate Services Patents and**  
**Trademarks**  
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(54) **Implant material.**

(57) A material of unalloyed titanium for implantation in  
body tissue wherein the surface inorganic atomic  
layer of the material contains

Ti 29 - 33

O 61 - 67

expressed in atomic per cent. In addition, the sur-  
face layer may not include amounts of other atoms  
about certain maximums. By using in living tissue it  
has been found that such a surface composition has  
given particularly positive tissue reactions.

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	CHEMICAL ABSTRACTS, vol. 103, no. 22, 2nd December 1985, page 362, abstract no. 183600h, Columbus, Ohio, US; & JP-A-60 92 761 (KYOCERA CORP.) 24-05-1985 * Whole abstract * ---	1	A 61 L 27/00 A 61 L 31/00
X	FR-A-2 383 656 (CERAVER) * Claim 1 * ---	1	
X	DE-A-2 313 678 (H. BECKER) * Claims 1,4 * ---	1	
X	FR-A-2 282 852 (J. MASNOU) * Claims 1,8 * ---	1	
A	FR-A-2 318 617 (SUMITOMO) * Claims 1,6,7 * -----	1	TECHNICAL FIELDS SEARCHED (Int. Cl.4)  A 61 L
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 12-10-1987	Examiner PELTRE CHR.
<b>CATEGORY OF CITED DOCUMENTS</b>			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons  & : member of the same patent family, corresponding document	